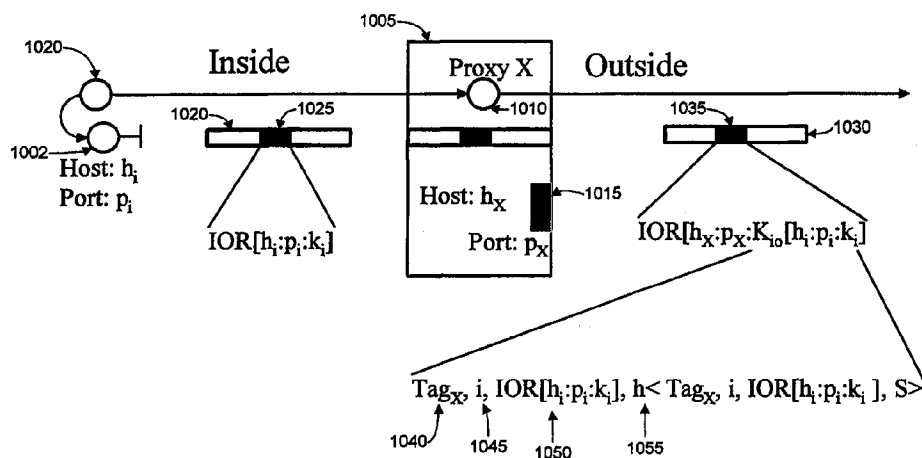




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>6</sup> :</b> <b>G06F 9/46</b>	<b>A2</b>	<b>(11) International Publication Number:</b> <b>WO 99/28819</b> <b>(43) International Publication Date:</b> 10 June 1999 (10.06.99)
<b>(21) International Application Number:</b> PCT/GB98/03632 <b>(22) International Filing Date:</b> 4 December 1998 (04.12.98) <b>(30) Priority Data:</b> 9725742.2 4 December 1997 (04.12.97) GB <b>(71) Applicant (for all designated States except US):</b> HEWLETT-PACKARD COMPANY [US/US]; 3000 Hanover Street, Palo Alto, CA 94304 (US). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> REES, Owen, Richard, Thomas [GB/GB]; 43 Ffos-Y-Fran, Bassaleg, Newport NP1 9LU (GB). EDWARDS, Nigel, John [GB/GB]; 36 Wellington Hill, Horfield, Bristol BS7 8SR (GB). <b>(74) Agent:</b> LAWMAN, Matthew, John, Mitchell; Hewlett-Packard Limited, Intellectual Property Section, Filton Road, Stoke Gifford, Bristol BS34 8QZ (GB).		<b>(81) Designated States:</b> AU, JP, SG, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>

## (54) Title: OBJECT GATEWAY



## (57) Abstract

A network gateway (1005) is described, wherein an object invocation (1020) containing an embedded object reference (1025), which points to a further object (1002), is modified on passing through the gateway. The gateway validates the object invocation and enacts a number of security tests thereon before forwarding it on. In preferred embodiments, the embedded object reference is replaced by an object reference (1035) to a gateway proxy specifically for the further object (1002). The replacement object reference (1035) also includes enough information that the original object reference (1025) can be recovered. The gateway proxy is generated on or after receipt of the invocation (1020). In the event the further object (1002), which was the subject of the object reference, is itself invoked, the invocation is directed to the gateway proxy, which in turn recovers the original object reference and forwards the invocation on to the further object (1002).